

Fig. 1

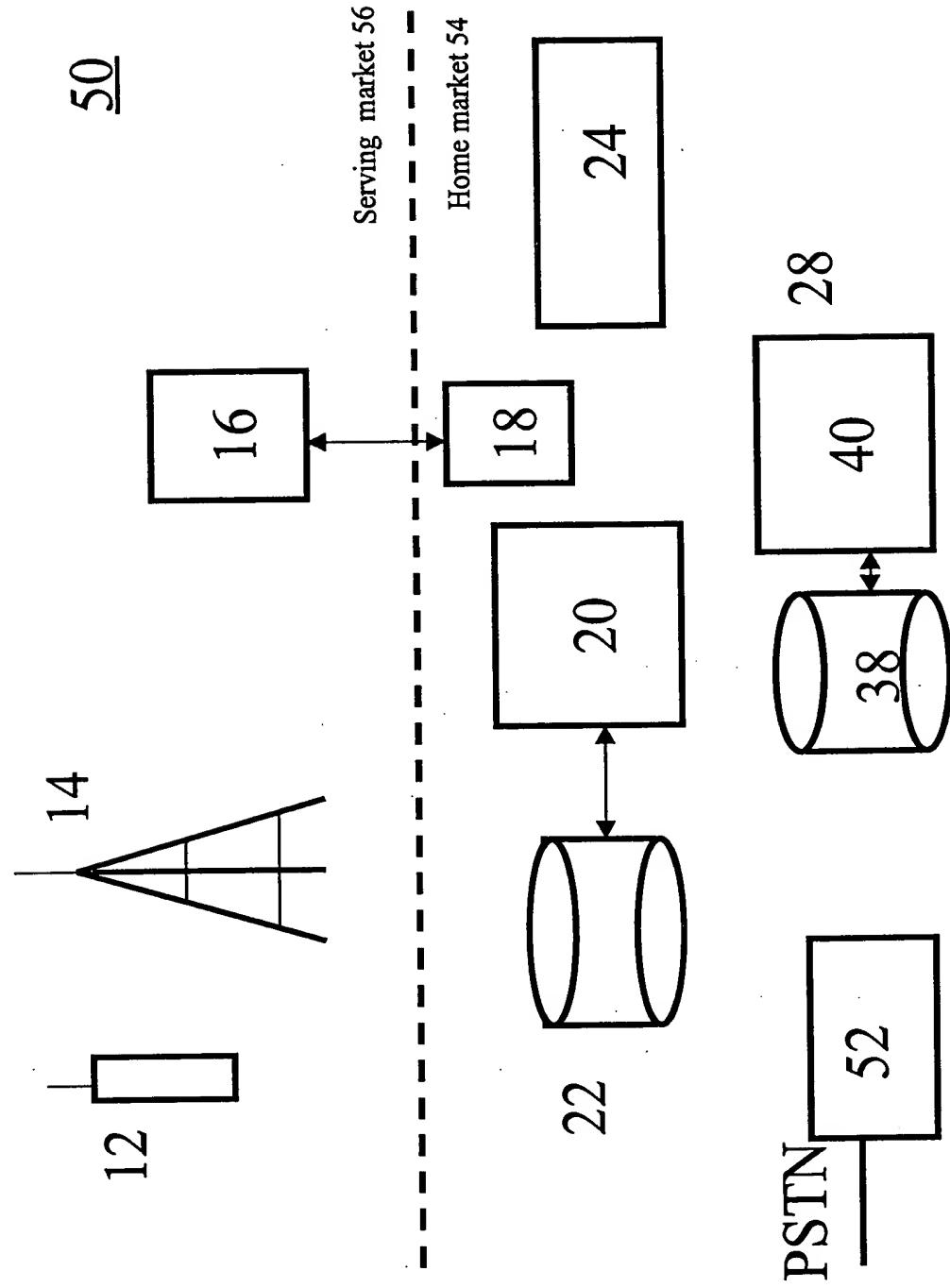


Fig. 2

Roamer Registration and Verification Model

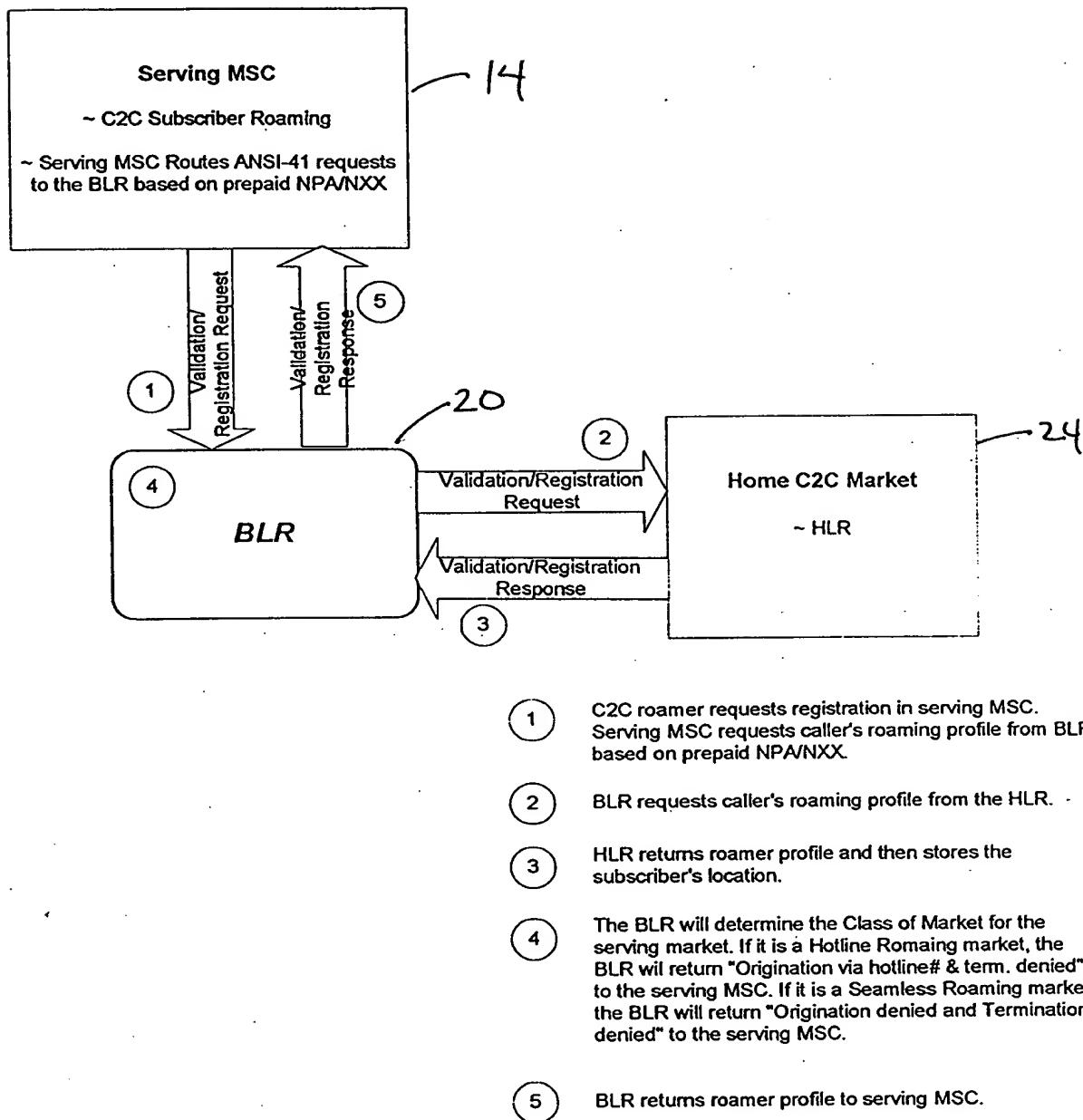
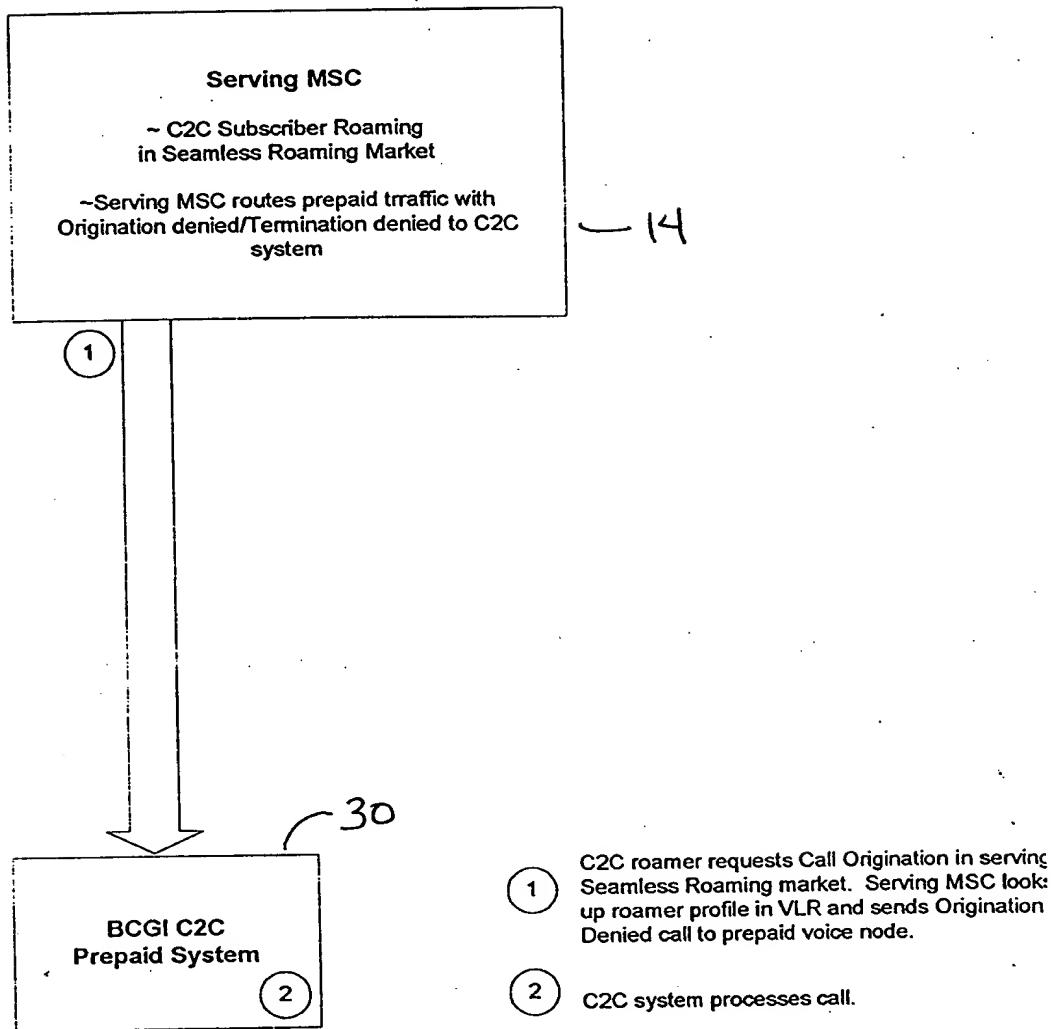
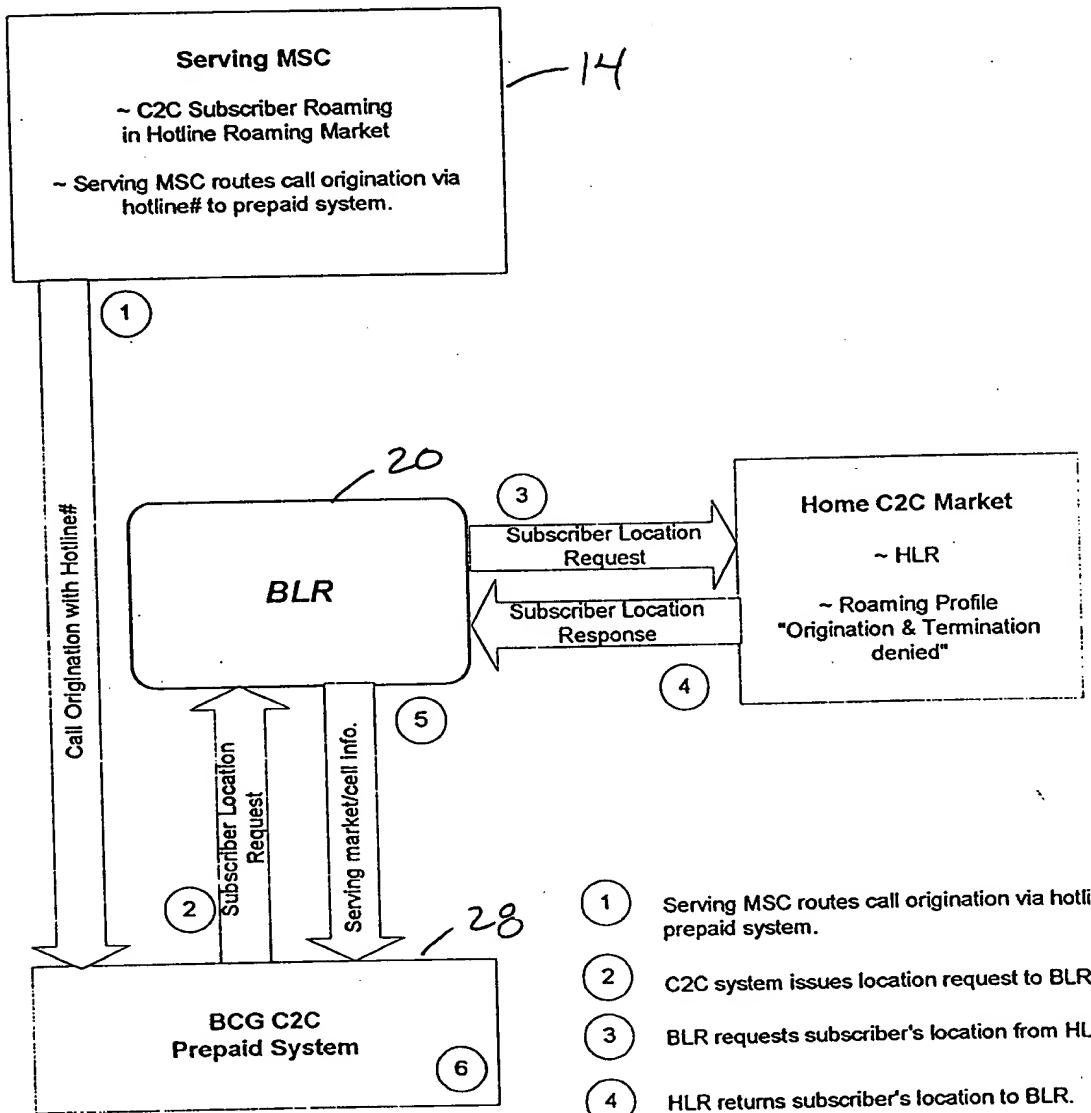


Fig 3

Roaming Call Origination Model (Seamless Roaming Market)



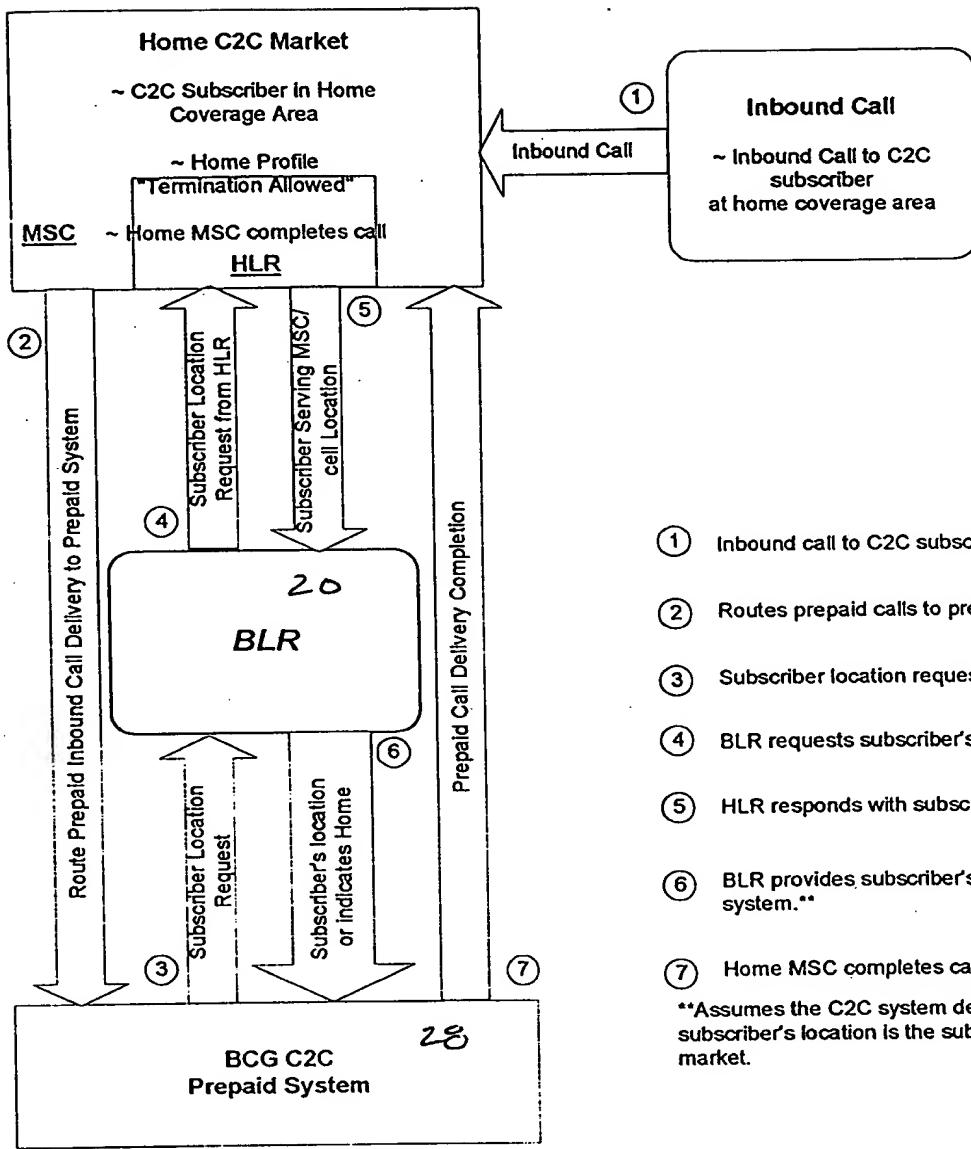
Roaming Call Origination Model (Hotline Roaming Market)



- 1**: Serving MSC routes call origination via hotline# to prepaid system.
- 2**: C2C system issues location request to BLR.
- 3**: BLR requests subscriber's location from HLR*.
- 4**: HLR returns subscriber's location to BLR.
- 5**: BLR provides subscriber's location down to the cell and sector (if available) to the prepaid system for rating.
- 6**: C2C system processes call.

* Assuming the HLR stores the subscriber's location with Term. Denied; if not, then the BLR will need to store the subscriber's location.

Fig 5

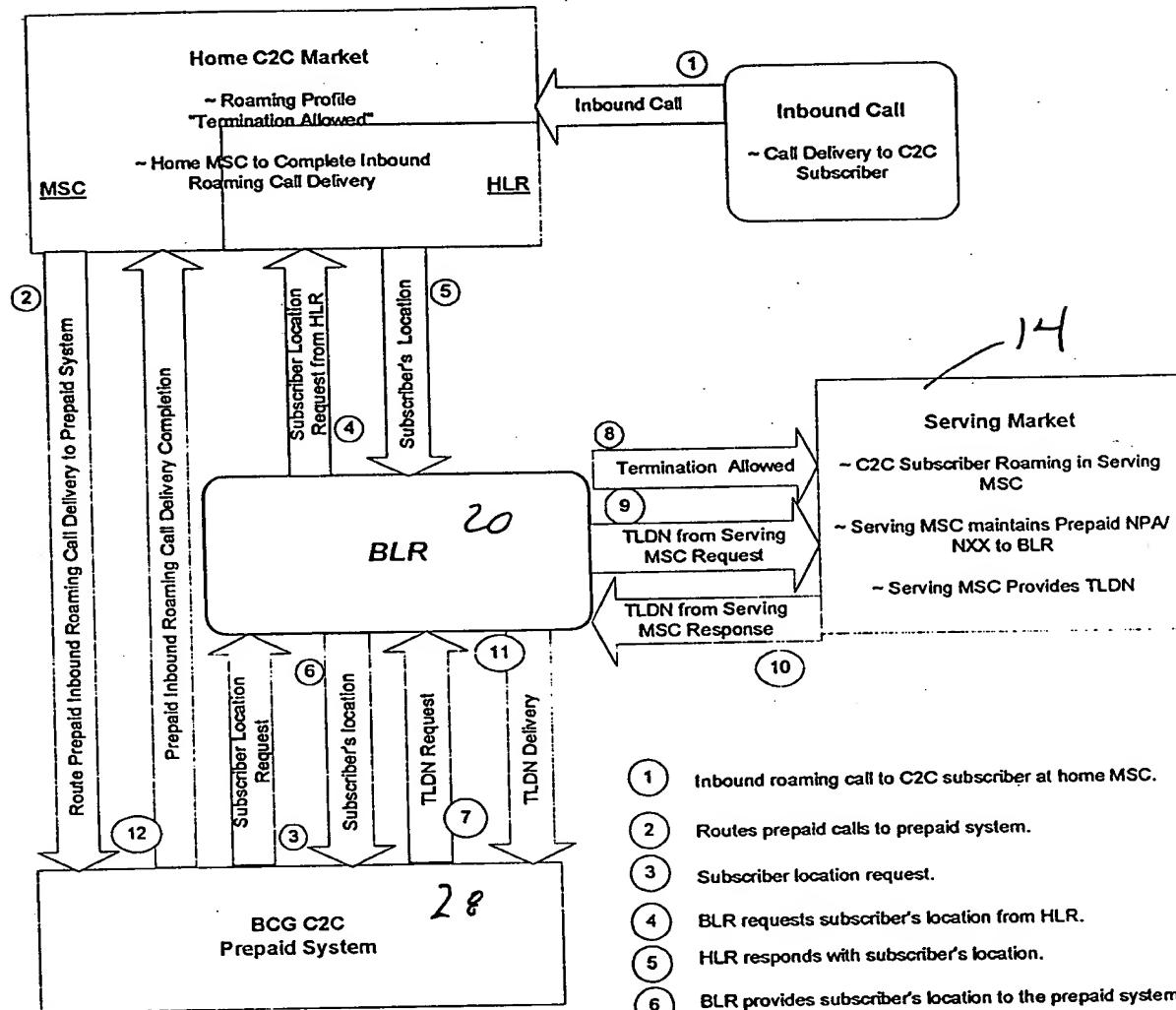


- ① Inbound call to C2C subscriber at home MSC.
- ② Routes prepaid calls to prepaid system.
- ③ Subscriber location request.
- ④ BLR requests subscriber's location from HLR.
- ⑤ HLR responds with subscriber's location.
- ⑥ BLR provides subscriber's location to the prepaid system.*
- ⑦ Home MSC completes call.

*Assumes the C2C system determines that the subscriber's location is the subscriber's home market.

Fig 6

Roaming Call Delivery Model



*** Assumes C2C system determines that subscriber's location is not subscriber's home market.

**** Assumes Term. Allowed for One Call is possible.

***** Assumes serving MSC will return a TLDN if Term. Denied in roamer profile.

- 1 Inbound roaming call to C2C subscriber at home MSC.
- 2 Routes prepaid calls to prepaid system.
- 3 Subscriber location request.
- 4 BLR requests subscriber's location from HLR.
- 5 HLR responds with subscriber's location.
- 6 BLR provides subscriber's location to the prepaid system.
- 7 Prepaid system requests TLDN.***
- 8 BLR sets "Termination Allowed" in roaming profile for the duration of one call.****
- 9 BLR obtains TLDN from VLR.
- 10 VLR returns TLDN to BLR.*****
- 11 BLR delivers TLDN to prepaid system.
- 12 Home MSC completes call and rates call accordingly.

Fig 7